#### DII.3.1.HPSOL.SMG-1

# **Defense Information Infrastructure (DII)**

# **Common Operating Environment (COE)**

Version 3.1

**Security Manager's Guide** 

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Prepared for:

**Defense Information Systems Agency** 

Prepared by:

Inter-National Research Institute (INRI) 12200 Sunrise Valley Drive, Suite 300 Reston, Virginia 20191

## DII.31.HPSOL.SMG-1

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# **Preface**

The following conventions have been used in this document:

[HELVETICA FONT]	Used to indicate keys to be pressed. For example, press [RETURN].
Courier Font	Used to indicate entries to be typed at the keyboard, operating system commands, titles of windows and dialog boxes, and screen text. For example, execute the following command:  tar xvf /dev/rmt/3mn
"Quotation Marks"	Used to indicate prompts and messages that appear on the screen.
Italics	Used for emphasis.

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# 1. Introduction

# 1.1 Overview

This document provides general information about the Defense Information Infrastructure (DII) Common Operating Environment (COE) and the security administration capabilities of the DII COE kernel. Reference the DII COE Integration and Runtime Specification for more information about the DII COE. Refer to the DII COE Kernel Installation Guide (HP-UX 10.20) and the DII COE Kernel Installation Guide (Solaris 2.5.1) for more information about installing the DII COE kernel and segments.

This guide is divided into the following sections:

Section	Page
Introduction Provides a high-level overview of the DII COE Security Manager's Guide and lists additional sources of information.	3
Security Administration Login and Overview  Describes how to access DII COE Security Administration functionality and describes the main Security Manager window features.	5
User Account, Group, and Profile Management Explains how to create and delete accounts, create and delete groups, edit a particular user's groups, edit a particular group's users, add and delete profiles, assign applications to profiles, and assign profiles to users.	9
Text Editing Explains how to cut, copy, and paste selected text from one field to another, as well as how to delete selected text.	31
Account Scope Explains how to choose whether a user account will be local, remote, or global.	33
Secman Password Management Describes how to change the secman password.	35
Profile Modification  Describes how to modify profiles to add and restrict access to functions within menus and options using the Edit Profiles icon.	37
Profile Configuration Provides information about profile selection, locking, auditing, and criteria.	41

## 1.2 Referenced Documents

Reference the following documents for more information about the DII COE:

- C Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification Version 2.0, DII COE I&RTS:Rev 2.0, Inter-National Research Institute (INRI), October 23, 1995
- C Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.0.1.0 Kernel Installation Guide (HP-UX 10.20), DII.3010.HP1020.IG-1, Inter-National Research Institute (INRI), April 14, 1997
- C Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.0.0.3 Kernel Installation Guide (Solaris 2.5.1), DII.3003.Sol251.IG-2, Inter-National Research Institute (INRI), April 7, 1997
- C Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.1 System Administrator's Guide(HP-UX 10.20 and Solaris 2.5.1), DII.31.HPSOL.AG-1, Inter-National Research Institute (INRI), April 14, 1997.

# 2. Security Administration Login and Overview

To access DII COE Security Administration functionality, you must enter the secman login name and the secman password. Only user accounts that are assigned to profiles under the Security Admin account group may run Security Manager. The DII COE Login screen (Figure 1) and the DISA security screen appear any time a machine loaded with the HP-UX 10.20 or Solaris 2.5.1 Operating System and the DII COE kernel is rebooted or any time a user logs out of the system at the console.

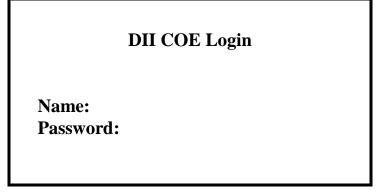


Figure 1. DII COE Login Screen

Follow the steps below to log in with a secman account and access DII COE Security Administration functionality.

- STEP 1: Log in as security administrator. Type secman at the Name prompt in the DII COE Login window (Figure 1) and press [RETURN].
- STEP 2: Enter the secman password. Type the secman password at the Password prompt in the DII COE Login window (Figure 1) and press [RETURN]. The Security Administration software appears.
- STEP 3: Access the Application Manager. Double-click on Application Manager on the Common Desktop Environment (CDE) panel. Refer to Section 5 of the *DII COE System Administrator's Guide (HP-UX 10.20 and Solaris 2.5.1)* for more information about CDE.
- STEP 4: Select the DII\_APPS folder. Double-click on the DII\_APPS folder. The Application Manager DII\_APPS window appears.
- STEP 5: Select the sso\_Default folder. Double-click on the SSO\_Default folder. The Application Manager SSO\_Defaultwindow appears.
- STEP 6: Select the security Manager icon. Double-click on the Security Manager icon.

STEP 7: **Enter the login password**. If the workstation is a NIS+ client or server, the ENTER A PASSWORD window appears (Figure 2) prompting for the login password of the account to start Security Manager. Enter the password in the Password field and in the Verify field and then click on the OK button.

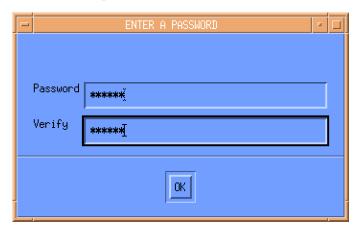


Figure 2. ENTER A PASSWORD Window

STEP 8: Review the information in the security manager window. The security manager window appears (Figure 3).

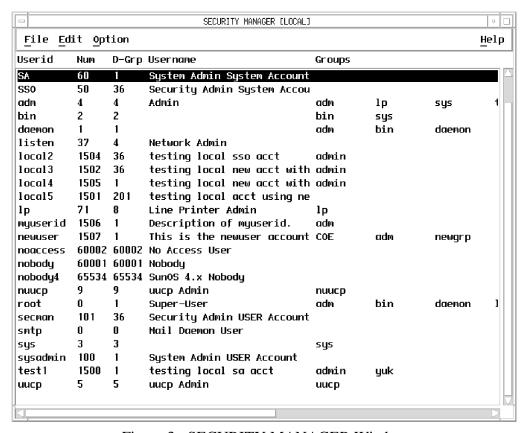


Figure 3. SECURITY MANAGER Window

This SECURITY MANAGER window displays a list of all user accounts. From this window, you can create and edit user accounts, as well as view and maintain a list of user accounts in the system. The list of user accounts includes default accounts and accounts added by the Security Manager (or by any user assigned a Security Admin profile with permission to add accounts). Three default user accounts are provided with the security application:

root—the privileged user account for the workstation
secman—the security administration user account
sysadmin—the system administration user account

**NOTE**: Only the password can be modified on these default accounts, which are protected system files. These accounts cannot be deleted or edited any other way. Reference Section 6, *Secman Password Management*, for information about modifying the secman password.

The SECURITY MANAGER window has the following fields: Userid, Num, D-Grp, Username, and Groups. These fields are described below.

Userid	User name.
Num	User ID number assigned to the user by the system.
D-Grp	Default account group number to which the user belongs; assigned by the system.
Username	Name of the account.
Groups	Groups to which the user belongs.

Local accounts are displayed by default, as indicated by the word <code>[LOCAL]</code> that follows the words <code>SECURITY MANAGER</code> in the title bar in Figure 3. When you first open the <code>SECURITY MANAGER</code> window, you must decide if you want to maintain local or global user accounts. If you need to modify global accounts, use the <code>Option</code> pull-down menu and choose <code>Global Accounts</code> (reference Section 5, <code>Account Scope</code>). The <code>Global Accounts</code> option is only available if NIS or NIS+ has been configured on your workstation. Refer to Section 6 of the <code>DII COE System Administrator's Guide</code> (<code>HP-UX 10.20 and Solaris 2.5.1</code>) for information about configuring NIS and NIS+.

The SECURITY MANAGER window has three pull-down menus: File, Edit, and Option. These menus and their associated options are discussed in Section 3, *User Account, Group, and Profile Configuration*, Section 4, *Text Editing*, and Section 5, *Account Scope*. Other security management functions can be performed from other icons located in the Application Manager - SSO\_Default window. These functions are discussed in Section 6, *Secman Password Management*, Section 7, *Profile Modification*, and Section 8, *Profile Configuration*.

# 3. User Account, Group, and Profile Management

A user account is established for each user. Each user, in turn, is assigned a combination of one or more account groups and profiles. You can perform user account, group, and profile management by selecting options from the File pull-down menu in the SECURITY MANAGER window (Figure 3). These capabilities are described in the following subsections.

# 3.1 User Account Management

#### 3.1.1 Creating a New User Account

Follow the steps below to establish a user account.

- STEP 1: **Open the security manager window**. Open the security manager window (Figure 3), as described in Section 2, Security Administration Login and Overview.
- STEP 2: Choose to create a user account. Select the Create Account option from the File pull-down menu. The SECURITY MANAGER: Create Account window appears (Figure 4). A system-assigned user number appears in the USER NUMBER field. This field defaults to the next highest available number in the range appropriate to the account scope.

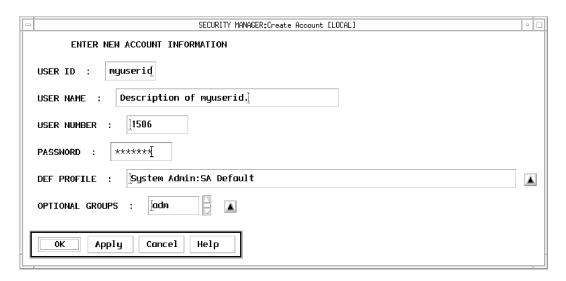


Figure 4. SECURITY MANAGER: Create Account Window

- STEP 3: Choose a user name. Enter a user name in the USER ID field. This field is an 8-character alphanumeric field for the user login name.
- STEP 4: Create a description for the user name. Enter a description of the user name in the USER NAME field. This description must have 40 characters or less.

- STEP 5: Choose a password. Enter a password in the PASSWORD field. The password must have between 8 and 10 characters.
- STEP 6: Select a default profile. Select a default profile for the user account in the DEF PROFILE field. If you click on the DEF PROFILE toggle, the SECURITY MANAGER: DEF window appears (Figure 5).

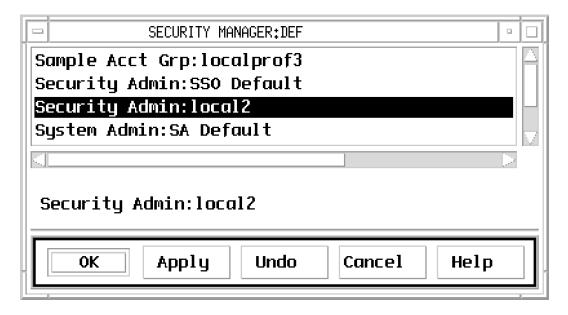


Figure 5. SECURITY MANAGER: DEF Window

After initial system installation, the SECURITY MANAGER: DEF window allows you to select one of the following two default profiles:

- ${\mathfrak C}$  Security Admin:SSO Default
- C System Admin: SA Default

The Security Admin: SSO Default profile provides access to all security application menus and options. The System Admin: SA Default profile provides access to all system application menus and options.

This window also lists all account group profiles that have been installed or created. Reference Section 3.3, *Profile Management*, for information about adding profiles and assigning profiles to account groups.

In the SECURITY MANAGER: DEF window, select a default profile for the user account by highlighting it and click on the OK button to apply your changes and exit the window. The SECURITY MANAGER: Create Account window (Figure 4) returns to the forefront.

STEP 7: Assign the user to groups, if desired. Click on the <code>optional</code> groups toggle if you want to assign the new user account to one or more groups. The <code>security</code> <code>manager:optional</code> window appears (Figure 6).

**NOTE**: You may choose to leave the Optional Groups field blank. You can assign the user to groups at a later time by selecting either the Edit User's Groups option or Edit Group's Users option. Reference sections 3.2.4, *Editing a User's Groups*, and 3.2.5, *Editing a Group's Users*, for more information.

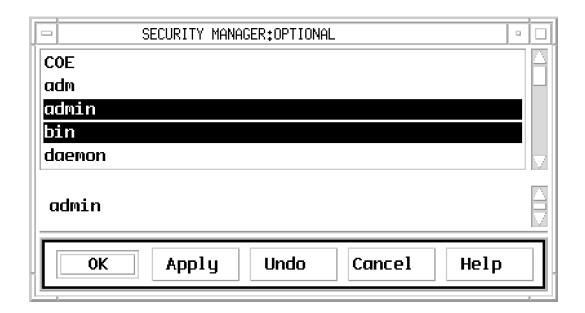


Figure 6. SECURITY MANAGER: OPTIONAL Window

**NOTE**: The up and down arrows to the right of the OPTIONAL GROUPS field do not work.

The SECURITY MANAGER: OPTIONAL window allows you to choose one or more groups to which the new user will belong. Select a group by clicking on it to highlight it and then click on the Apply button to apply your changes. Continue to select groups, if desired, by clicking on each one to highlight it and then clicking on the Apply button to apply your changes. When you have selected all the groups to which the user will belong, click on the OK button to exit the window. The SECURITY MANAGER: Create Account window (Figure 4) returns to the forefront.

**NOTE**: Refer to subsections 3.2.4, *Editing a User's Groups*, and 3.2.5, *Editing a Group's Users*, for information about adding additional groups.

- STEP 8: Apply your changes. Click on the Apply button to apply your changes and remain in the window, or click on the OK button to apply your changes and exit the SECURITY MANAGER: Create Account window. If you choose to click on the Apply button instead of the OK button, you can continue to create user accounts, if desired, and apply your changes for each user account without exiting the window until you are finished.
- STEP 9: **Review your changes in the SECURITY MANAGER WINDOW**. The newly created account now appears in the SECURITY MANAGER WINDOW (Figure 3).

## 3.1.2 Deleting a User Account

Follow the steps below to delete a user account.

- STEP 1: **Open the security manager window**. Open the security manager window (Figure 3), as described in Section 2, Security Administration Login and Overview.
- STEP 2: Select the account you want to delete. Highlight an account in the SECURITY MANAGER window (Figure 3) to select it.
- STEP 3: Select the Delete Account option. Select the Delete Account option from the File pull-down menu. The SECURITY MANAGER: Delete Account window appears (Figure 7). The USER ID field shows the name of the account to be deleted; the USER NAME field shows the description of the account to be deleted.

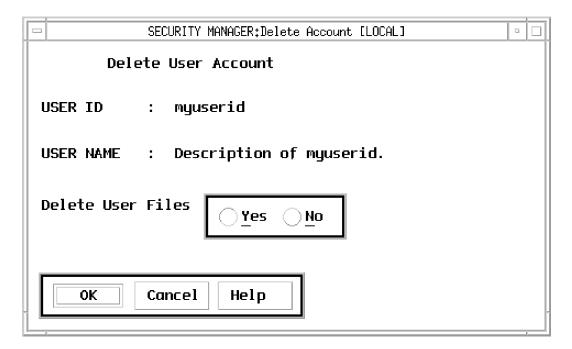


Figure 7. SECURITY MANAGER: Delete Account Window

The Delete User Files field defaults to Yes. By deleting these files, you will delete the home directory of the account and all files within it.

**NOTE**: If you want to preserve the account directory and files (by clicking on the No toggle in the Delete User Files field), make sure that you move the directory and files to a safe location out of the /h/USERS structure. If another account is created with the same login name and scope, it will overwrite the existing directory with a blank user account directory structure.

- STEP 4: Choose to delete user files. Click on the Yes toggle in the Delete User Files field to indicate that the account files should be deleted, or click on the No toggle if you do not want to delete the account files.
- STEP 5: **Apply your changes and close the window**. Click on the OK button to apply the changes and close the window.

WARNING: If you chose the Yes toggle in the Delete User Files field and then click on the OK button, the user account and all its associated files will be deleted with no further confirmation.

STEP 6: Review your changes in the SECURITY MANAGER window. The deleted account no longer appears in the SECURITY MANAGER window (Figure 3).

# 3.2 Group Management

It is usually easier to manage security if you organize users into groups and then assign permissions to groups rather than to individual users. With this strategy, rather than assign permissions to each user, you can assign permissions to a few groups and then add users to the appropriate group. When users log in at the DII COE Login window, they inherit the permissions from any groups to which they belong. The Groups option has the following menu suboptions:

New, Change, Delete, Edit User's Groups and Edit Group's Users. These suboptions are described in the following subsections.

#### 3.2.1 Creating a Group

Follow the steps below to create a group.

- STEP 1: **Open the security manager window**. Open the security manager window (Figure 3), as described in Section 2, Security Administration Login and Overview.
- STEP 2: Choose to create a group. Select the Groups option, New option from the File pull-down menu. The SECURITY MANAGER: Create Group Window appears (Figure 8). A system-assigned group number appears in the NEW GROUP NUMBER field.

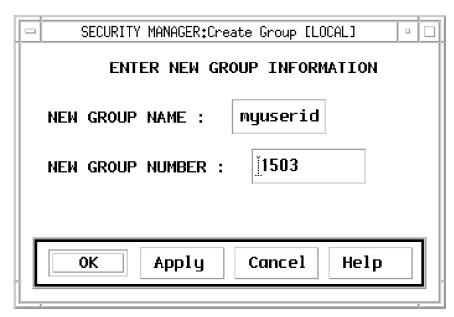


Figure 8. SECURITY MANAGER: Create Group Window

- STEP 3: Choose a name for the group you want to create. Enter a group name in the NEW GROUP NAME field. The group name must have eight characters or less.
- STEP 4: **Apply your changes**. Click on the Apply button to apply your changes and remain in the window, or click on the ok button to apply your changes and exit the SECURITY MANAGER: Create Groupwindow. If you choose to click on the Apply button instead of the ok button, you can continue to create groups, if desired, and apply your changes for each group without exiting the window until you are finished.

## 3.2.2 Changing a Group Name

Follow the steps below to change the name of a group.

- STEP 1: **Open the security manager window**. Open the security manager window (Figure 3), as described in Section 2, Security Administration Login and Overview.
- STEP 2: Choose to change the name of a group. Select the Groups option, Change option from the File pull-down menu. The SECURITY MANAGER: Change Group window appears (Figure 9).

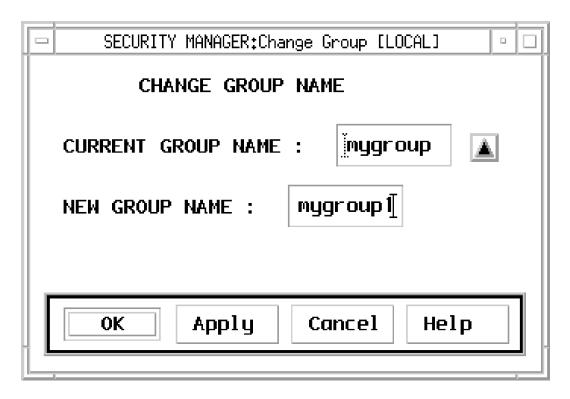


Figure 9. SECURITY MANAGER: Change Group Window

STEP 3: Select the appropriate group. Type the group name that you want to change in the CURRENT GROUP NAME field or use the toggle to select a group. If you click on the toggle, the SECURITY MANAGER: CURRENT window appears (Figure 10). This window lists all of the groups from which you can choose.

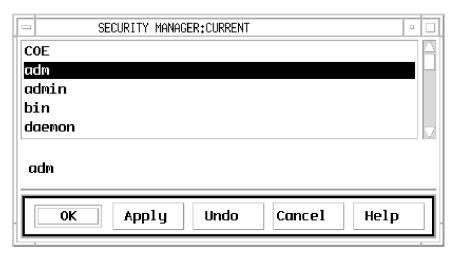


Figure 10. SECURITY MANAGER: CURRENT Window

Select a group by clicking on it to highlight it and then click on the OK button to exit the window. The SECURITY MANAGER: Change Groupwindow (Figure 9) returns to the forefront.

- STEP 4: Choose a new name for the group. Enter the new name of the group in the NEW GROUP NAME field. The new name must be eight characters or less.
- STEP 5: Apply your changes and exit the window. Click on the Apply button to apply your changes and remain in the window, or click on the OK button to apply your changes and exit the SECURITY MANAGER: Change Groupwindow. If you choose to click on the Apply button instead of the OK button, you can continue to change group names, if desired, and apply your changes for each group without exiting the window until you are finished.

## 3.2.3 Deleting a Group

Follow the steps below to delete a group.

- STEP 1: **Open the security manager window**. Open the security manager window (Figure 3), as described in Section 2, Security Administration Login and Overview.
- STEP 2: Choose to delete a group. Select the Groups option, Delete option from the File pull-down menu. The SECURITY MANAGER: Delete Group window appears (Figure 11).



Figure 11. SECURITY MANAGER: Delete Group Window

STEP 3: Choose the group you want to delete. Enter the name of the group that you want to delete in the GROUP TO DELETE field or use the toggle to select a group. If you click on the toggle, the SECURITY MANAGER: GROUP window appears (Figure 12). This window lists all group names from which you can choose.

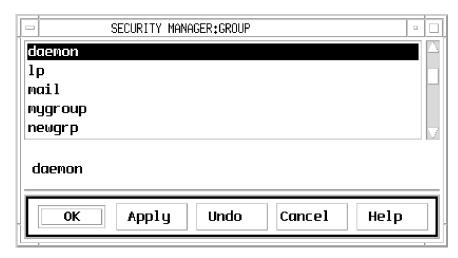


Figure 12. SECURITY MANAGER:GROUP Window

Select a group by clicking on it to highlight it and then click on the OK button to exit the window. The SECURITY MANAGER: Delete Groupwindow (Figure 11) returns to the forefront.

STEP 4: **Apply your changes and exit the window**. Click on the Apply button to apply your changes and remain in the window, or click on the OK button to apply your changes and exit the SECURITY MANAGER: Delete Groupwindow. If you choose to click on the Apply button instead of the OK button, you can continue to delete groups, if desired, and apply your changes for each group without exiting the window until you are finished.

#### 3.2.4 Editing a User's Groups

Follow the steps below to edit the groups to which a particular user account belongs.

- STEP 1: **Open the security manager window**. Open the security manager window (Figure 3), as described in Section 2, Security Administration Login and Overview.
- STEP 2: Choose to edit a user's groups. Select the Groups option, Edit User's Groups option from the File pull-down menu. The SECURITY MANAGER: Edit By User window appears (Figure 13).

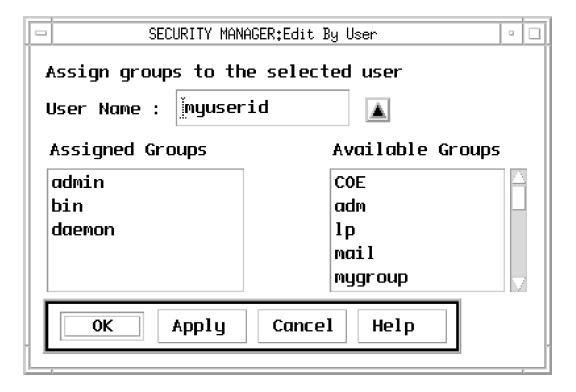


Figure 13. SECURITY MANAGER: Edit By User Window

STEP 3: Choose the user name that you want to edit. Enter a user name in the User Name field or use the toggle to select a user name. If you click on the toggle, the SECURITY MANAGER: User window appears (Figure 14). This window lists all user account names.

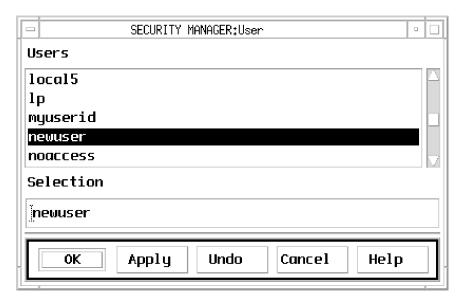


Figure 14. SECURITY MANAGER: User Window

Select a user account by clicking on it to highlight it and then click on the OK button to exit the window. The SECURITY MANAGER: Edit by Userwindow (Figure 13) returns to the forefront.

- STEP 4: Assign the user account to one or more groups, if desired. After you select a user account name, the assigned groups for that user account appear in the Assigned Groups column and the available groups for that user account appear in the Available Groups column. Assign the user account to one or more groups, if desired, by highlighting the groups in the Available Groups column. The group names now appear in the Assigned Groups column.
- STEP 5: Remove the user account from one or more groups, if desired. Remove the user account from one or more groups, if desired, by highlighting the groups in the Assigned Groups column. The group names now appear in the Available Groups column.
- STEP 6: **Apply your changes**. Click on the Apply button to apply your changes and remain in the window, or click on the OK button to apply your changes and exit the SECURITY MANAGER: Edit by Userwindow. If you choose to click on the Apply button instead of the OK button, you can continue to edit users' groups, if desired, and apply your changes for each user account without exiting the window until you are finished.

STEP 7: Review your changes in the SECURITY MANAGER window. The changes appear in the SECURITY MANAGER window (Figure 3).

# 3.2.5 Editing a Group's Users

Follow the steps below to edit the user accounts that belong to a particular group.

- STEP 1: **Open the security manager window**. Open the security manager window (Figure 3), as described in Section 2, Security Administration Login and Overview.
- STEP 2: Choose to edit a group's users. Select the Groups option, Edit Group's Users option from the File pull-down menu. The SECURITY MANAGER: Edit By Group window appears (Figure 15).

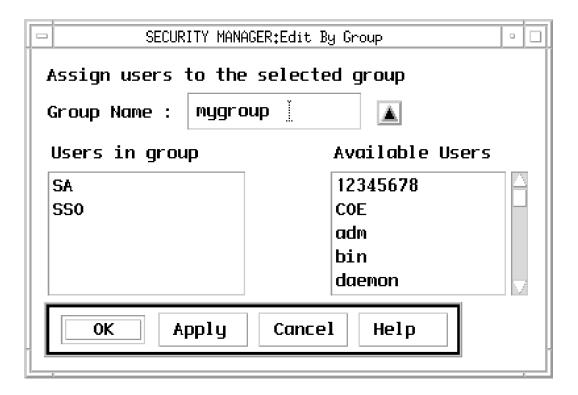


Figure 15. SECURITY MANAGER:Edit By Group Window

STEP 3: Choose a group name. Enter a group name in the Group Name field or use the toggle to select a group name. If you click on the toggle, the SECURITY MANAGER: Group window appears (Figure 16). This window lists all group names.



Figure 16. SECURITY MANAGER: Group Window

Select a group by clicking on it to highlight it and then click on the OK button to exit the window. The SECURITY MANAGER: Edit by Group window (Figure 15) returns to the forefront.

- STEP 4: Assign one or more user accounts to the group, if desired. After you select a group, the assigned user accounts for that group appear in the Users in group column, and the available user accounts for that group appear in the Available Users column. Assign one or more user accounts to the group, if desired, by highlighting them in the Available Users column. The user accounts now appear in the Users in group column.
- STEP 5: Remove one or more user accounts from the group, if desired. Remove one or more user accounts from the group, if desired, by highlighting the user accounts in the Users in group column. The user accounts now appear in the Available Users column.
- STEP 6: **Apply your changes and exit the window**. Click on the Apply button to apply your changes and remain in the window, or click on the OK button to apply your changes and exit the SECURITY MANAGER: Edit by Groupwindow. If you choose to click on the Apply button instead of the OK button, you can continue to edit users that belong to various groups, if desired, and apply your changes for each group without exiting the window until you are finished.

STEP 7: **Review your changes in the SECURITY MANAGER WINDOW**. The changes will appear in the SECURITY MANAGER WINDOW (Figure 3).

# 3.3 Profile Management

Profiles are assigned to each user account. Security Manager maintains the user profile database. A profile defines access to functions within the menus and options of the assigned account group. The system has two default profiles:

- ${\mathfrak C}$  SSO Default
- C SA Default.

The SSO Default profile provides access to all security application menus and options. The SA Default profile provides access to all system administration menus and options. Additional profiles also can be added by the Security Manager. Once created and defined, profiles can be modified to add and restrict access to functions within menus and options. Reference Section 7, *Profile Modification*, for information about modifying existing profiles.

To access profile management functionality, select the Profiles option from the File pull-down menu. The SECURITY MANAGER: Profile Managerwindow appears (Figure 17).

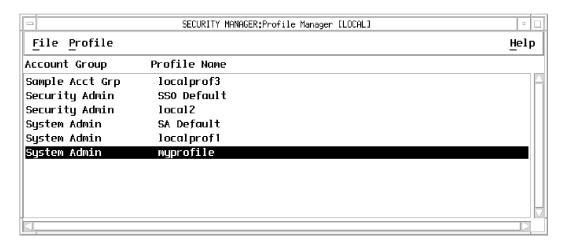


Figure 17. SECURITY MANAGER: Profile Manager Window

The SECURITY MANAGER: Profile Managerwindow has two pull-down menus: File and Profile. The File pull-down menu has the following option: Close. The Profile menu has the following options: Add Profile, Modify Name, Delete, Assign Applications and Assign to Users.

**NOTE**: The Modify Name function does not work.

#### 3.3.1 Adding a Profile

Follow the steps below to add a profile.

- STEP 1: **Open the security Manager: Profile Manager window**. Open the SECURITY MANAGER: Profile Manager window (Figure 17), as described in Section 3.3, *Profile Management*.
- STEP 2: Choose to create a profile. Select the Add Profile option from the Profile pull-down menu. The SECURITY MANAGER: Create Profilewindow appears (Figure 18).



Figure 18. SECURITY MANAGER: Create Profile Window

STEP 3: Choose a profile name. Enter a profile name in the PROFILE NAME field. The profile name can have up to 40 characters.

STEP 4: Select an account group. Select an account group by clicking on the ACCOUNT GROUP toggle. The SECURITY MANAGER: ACCOUNT window appears (Figure 19). This window lists the System Admin account group, the Security Admin account group, and any other account groups from which you can choose.



Figure 19. SECURITY MANAGER: ACCOUNT Window

Select an account group by clicking on it to highlight it and then click on the OK button to exit the window. The SECURITY MANAGER: Create Profilewindow (Figure 18) returns to the forefront.

STEP 5: **Apply and view your changes**. Click on the Apply button to apply your changes and remain in the window, or click on the OK button to apply your changes and exit the SECURITY MANAGER: Create Profilewindow. If you choose to click on the Apply button instead of the OK button, you can continue to add profiles, if desired, and apply your changes for each profile without exiting the window.

## 3.3.2 Deleting a Profile

Follow the steps below to delete a profile.

- STEP 1: **Open the security manager:Profile Managerwindow.** Open the SECURITY MANAGER:Profile Managerwindow (Figure 17), as described in Section 3.3, *Profile Management.*
- STEP 2: Select the profile you want to delete. Highlight a profile in the SECURITY MANAGER: Profile Manager window (Figure 17).
- STEP 3: Choose to delete the profile. Select the Delete option from the Profile pull-down menu. The SECURITY MANAGER: DeleteRole Warning window appears (Figure 20).

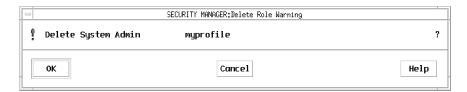


Figure 20. SECURITY MANAGER: Delete Role Warning Window

STEP 4: **Delete the profile**. Click on the OK button to delete the profile, or click on the Cancel button to cancel the deletion. The changes appear in the SECURITY MANAGER: Profile Manager window (Figure 17).

## 3.3.3 Assigning Applications to Profiles

Follow the steps below to assign applications to profiles. Applications assigned to a profile will appear as icons in the Application Manager window inside the profile's folder.

**NOTE**: To assign application menu items to a profile, use the Edit Profiles icon. Reference Section 7, *Profile Modification*, for information about assigning application menu items to profiles.

STEP 1: **Open the security manager: Profile Manager window.** Open the SECURITY MANAGER: Profile Manager window (Figure 17), as described in Section 3.3, *Profile Management.* 

STEP 2: Choose to assign applications to a profile. Select the Assign Applications option from the Profile pull-down menu. The SECURITY MANAGER: Assign Applications to Profiles window appears (Figure 21).

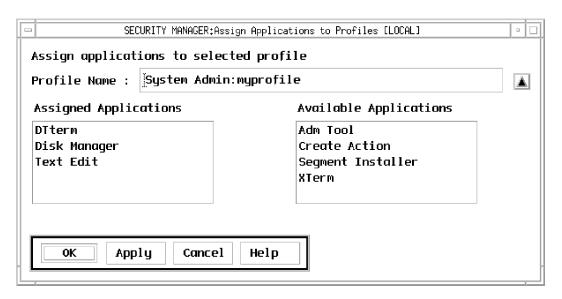


Figure 21. SECURITY MANAGER: Assign Applications to Profiles Window

STEP 3: Select the appropriate profile. Use the Profile Name toggle to select a profile name in the Profile Name field. The SECURITY MANAGER: Profile window appears (Figure 22). This window lists all profile names from which you can choose.

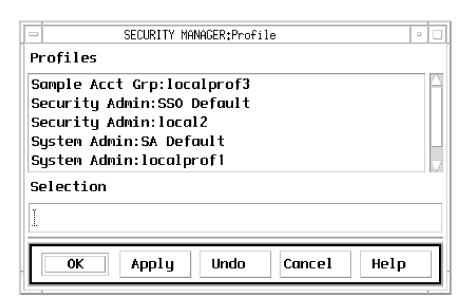


Figure 22. SECURITY MANAGER: Profile Window